

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Tamarack Golf Course
97 Hardenburg Lane
East Brunswick, NJ 08816

File Number: 86025
Date Received: 6/14/2021
Date Reported: 6/16/2021

Submitted By: Soil and Water Consulting

Lab Number 0036
Description PRACTICE GREEN

pH 7.2

	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	213					
Chloride	57					
Nitrate (NO ₃ -N)	< 0.5					
Bicarbonate	46.94					

Sulfur	10.98					
Phosphorus	0.82					
Calcium	13.57	0.68	20.98			
Magnesium	3.63	0.30	9.24			
Potassium	23.05	0.59	18.26			
Sodium	38.24	1.66	51.52			
TOTAL		3.23	100			

Boron	0.05					
Iron	3.35					
Manganese	0.30					
Copper	0.07					
Zinc	0.16					
Aluminum	1.65					
Ammonium (NH ₄ -N)	2.2					

ESP (calculated)	2.20					
SAR (calculated)	2.38					

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0037			0038			
Description	WEST COURSE			WEST COURSE			
	GREEN			GREEN			
	1			3			
pH	7.2			7.0			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	221			265			
Chloride	65			64			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	43.37			43.72			
Sulfur	10.95			20.72			
Phosphorus	0.68			0.42			
Calcium	15.78	0.79	23.97	24.34	1.21	29.82	
Magnesium	4.43	0.36	11.08	8.85	0.73	17.87	
Potassium	21.49	0.55	16.73	28.53	0.73	17.91	
Sodium	36.43	1.58	48.22	32.22	1.40	34.40	
TOTAL		3.29	100		4.07	100	
Boron	0.05			0.06			
Iron	6.29			4.03			
Manganese	0.22			0.17			
Copper	0.05			0.05			
Zinc	0.18			0.17			
Aluminum	2.96			2.61			
Ammonium (NH4-N)	1.6			1.3			
ESP (calculated)	1.79			0.83			
SAR (calculated)	2.09			1.42			

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Lab Number	0039			0040			
Description	WEST COURSE			WEST COURSE			
	GREEN			GREEN			
	5			6			
pH	7.3			7.1			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	314			276			
Chloride	91			69			
Nitrate (NO ₃ -N)	< 0.5			< 0.5			
Bicarbonate	57.81			55.68			
Sulfur	16.02			19.73			
Phosphorus	0.34			0.38			
Calcium	23.43	1.17	23.99	21.67	1.08	26.82	
Magnesium	8.06	0.66	13.61	6.89	0.57	14.05	
Potassium	31.19	0.80	16.37	26.47	0.68	16.79	
Sodium	51.60	2.24	46.04	39.28	1.71	42.34	
TOTAL		4.87	100		4.03	100	
Boron	0.07			0.05			
Iron	2.87			2.96			
Manganese	0.20			0.35			
Copper	0.04			0.03			
Zinc	0.17			0.11			
Aluminum	1.66			1.64			
Ammonium (NH ₄ -N)	1.3			1.6			
ESP (calculated)	2.15			1.49			
SAR (calculated)	2.34			1.88			

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Lab Number	0041
Description	WEST COURSE
	GREEN
	15

pH	6.8
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	216					
Chloride	55					
Nitrate (NO ₃ -N)	< 0.5					
Bicarbonate	27.75					
Sulfur	16.70					
Phosphorus	0.30					
Calcium	16.80	0.84	26.92			
Magnesium	4.66	0.38	12.32			
Potassium	22.66	0.58	18.62			
Sodium	30.17	1.31	42.14			
TOTAL		3.11	100			
Boron	0.06					
Iron	4.62					
Manganese	0.40					
Copper	0.05					
Zinc	0.09					
Aluminum	3.09					
Ammonium (NH ₄ -N)	1.5					
ESP (calculated)	1.20					
SAR (calculated)	1.68					

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Lab Number	0042			0043			
Description	EAST COURSE			EAST COURSE			
	GREEN			GREEN			
	1			3			
pH	7.0			7.2			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	115			244			
Chloride	11			13			
Nitrate (NO ₃ -N)	< 0.5			< 0.5			
Bicarbonate	56.41			53.08			
Sulfur	8.70			37.63			
Phosphorus	0.44			0.15			
Calcium	15.79	0.79	41.38	36.29	1.81	46.32	
Magnesium	4.02	0.33	17.36	10.01	0.82	21.06	
Potassium	13.96	0.36	18.76	25.51	0.65	16.68	
Sodium	9.85	0.43	22.50	14.34	0.62	15.94	
TOTAL		1.90	100		3.91	100	
Boron	0.04			0.06			
Iron	6.07			1.38			
Manganese	0.24			0.59			
Copper	0.04			0.04			
Zinc	0.06			0.05			
Aluminum	4.93			1.48			
Ammonium (NH ₄ -N)	0.9			1.8			
ESP (calculated)	< .01			< .01			
SAR (calculated)	0.57			0.54			

* Soluble Salts: mmhos/cm = ppm / 640